

CLAIMS

1. An engine starting apparatus comprising, a power generator which is directly connected with a engine output shaft, and an ignition device which is controlled by a microcomputer using electricity output from the power generator as a power supply,

5 wherein the engine starting apparatus further comprises a humanly operative starting device which rotates a flywheel connected to the output shaft of the engine,

10 the engine starting apparatus further comprises an initial igniting function for generating ignition instructions when preset time is elapsed after a reference signal of an engine rotation position is first input to the microcomputer after the microcomputer starts up by the electricity output from the power generator operated by 15 the humanly operative starting device.

2. The engine starting apparatus according to claim 1, wherein the preset time is set such that the ignition instructions are generated with ignition angle which is lagged from ignition angle 20 used at the time of rating operation when the engine revolution number by the operation of the humanly operative starting device is predetermined lowest starting revolution number.

25 3. The engine starting apparatus according to claim 1, wherein after the microcomputer generates the ignition instructions by the initial ignition function, the ignition instructions are generated

at ignition angle corresponding to the engine revolution number.

4. The engine starting apparatus according to any one of claims 1 to 3, wherein the ignition device ignites at ignition angle 5 corresponding to the engine revolution number.